

Title (en)

COMPOSITE OF METAL WITH RESIN AND PROCESS FOR PRODUCING THE SAME

Title (de)

VERBUNDWERKSTOFF VON METALL MIT HARZ UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

COMPOSITE DE MÉTAL ASSOCIÉ À UNE RÉSINE ET PROCESSUS DE FABRICATION

Publication

**EP 2020284 B1 20140212 (EN)**

Application

**EP 06756579 A 20060525**

Priority

JP 2006310419 W 20060525

Abstract (en)

[origin: EP2020284A1] A composite of a metal and a resin, in which a shaped metal and a shaped thermoplastic resin are integrally joined by injection molding, and in which the perpendicular precision of the thermoplastic shaped body with respect to the shaped metal is improved, as well as a method for manufacturing the composite. A composite 40 of a metal and a resin is composed of a shaped metal 20 and a shaped thermoplastic resin that is integrally joined to this shaped metal 20 by injection molding. The shaped thermoplastic resin comprises a seat 42 and a boss 41 that protrudes from the seat 42. A runner 43 is provided which communicates with the seat 42 via two sprues and through which a molten thermoplastic resin that has been injected through an injection gate 45 flows into the boss 41 and the thermoplastic resin injected through the injection gate 45 flows through the sprues 47 to opposite locations of the boss 41 substantially uniformly, thereby filling the locations. As a result, the boss 41 can be joined perpendicularly to the shaped metal 20 by injection joining.

IPC 8 full level

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CPC (source: EP KR US)

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